2F04152-PCT

FIG.1

FRAME

TIME

FREQUENCY

5 PILOT

DATA

FIG.2 FIG.9 FIG.11

TRANSMISSION DATA

10 100 120 CODING SECTION

110 130 MODULATION SECTION

140 SUBCARRIER ASSIGNING SECTION

150 IFFT SECTION

160 GI INSERTING SECTION

15 170 RADIO TRANSMISSION SECTION

200 RADIO RECEPTION SECTION

210 GI REMOVING SECTION

220 FFT SECTION

230 PILOT EXTRACTING SECTION

20 240 CHANNEL ESTIMATION SECTION

250 DEMODULATION SECTION

260 DECODING SECTION

RECEPTION DATA

270 PILOT PATTERN SELECTING SECTION

25

FIG.3 FIG.11 FIG.12

FROM RADIO RECEPTION SECTION 200

- 272 DELAY DISPERSION MEASURING SECTION
- 274 MOVING SPEED ESTIMATING SECTION
- 276 OTHER-CELL INTERFERENCE MEASURING SECTION

FROM PILOT EXTRACTING SECTION 230

5 278 PILOT PATTERN INFORMATION GENERATING SECTION
TO CODING SECTION 120

FIG.4 FIG.10 FIG.16

- 300 RADIO RECEPTION SECTION
- 10 310 GI REMOVING SECTION
 - 320 FFT SECTION
 - 330 PILOT EXTRACTING SECTION
 - 340 CHANNEL ESTIMATION SECTION
 - 350 DEMODULATION SECTION
- 15 360 DECODING SECTION

RECEPTION DATA

TRANSMISSION DATA

- 400 CODING SECTION
- 410 MODULATION SECTION
- 20 420 PILOT GENERATING SECTION
 - 430 MULTIPLEXING SECTION
 - 440 IFFT SECTION
 - 450 GI INSERTING SECTION
 - 460 RADIO TRANSMISSION SECTION

25

FIG.5A FIG5B

TIME

2F04152-PCT

FREQUENCY

FIG.6A FIG.6B

RECEPTION POWER

5 FREQUENCY

FIG.7A FIG.7B

RECEPTION POWER

TIME

10

FIG.8

MOVING SPEED

DELAY DISPERSION

PATTERN

15

FIG.9

280 RECEPTION QUALITY MEASURING SECTION

290 MCS SELECTING SECTION

20 FIG.11

271 OFFSET ADDING SECTION

FROM MCS SELECTING SECTION 290

FIG.12

25 273 INSERTION PILOT DETERMINING SECTION FROM MCS SELECTING SECTION 290

2F04152-PCT

FIG.13

MODULATION SCHEME

PILOT PATTERN

TIME

5 FREQUENCY

FIG.14

100-1~100-K CODING SECTION

110-1~110-K MODULATION SECTION

10 MOBILE STATION 1

MOBILE STATION 2

MOBILE STATION K

TRANSMISSION DATA 1

TRANSMISSION DATA 2

15 TRANSMISSION DATA K

180 TIME SLOT ASSIGNING SECTION

PATTERN INFORMATION

PILOT SYMBOL

20 FIG.15

272 DELAY DISPERSION MEASURING SECTION

FROM RADIO RECEPTION SECTION 200

274 MOVING SPEED ESTIMATING SECTION .

FROM PILOT EXTRACTING SECTION 230

25 278 PILOT PATTERN INFORMATION GENERATING SECTION

TO TIME SLOT ASSIGNING SECTION 180

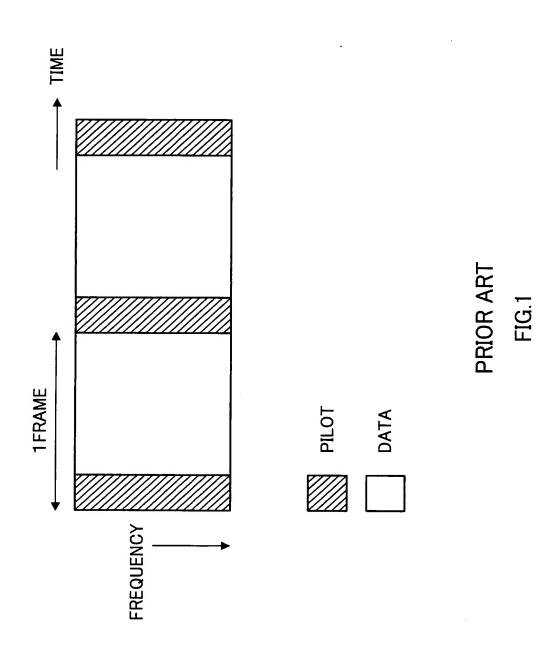
FIG.17

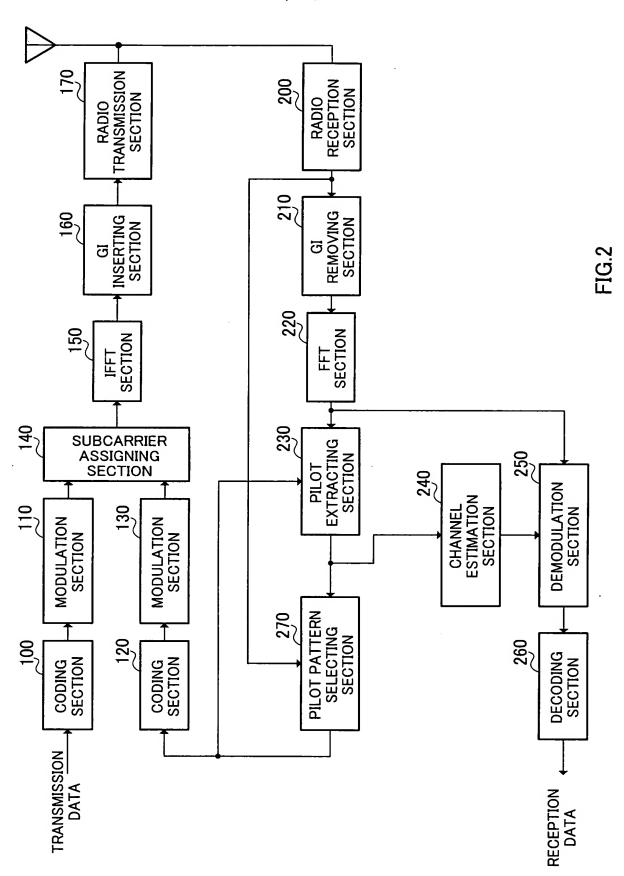
PATTERN

TIME SLOT

FRAME

5





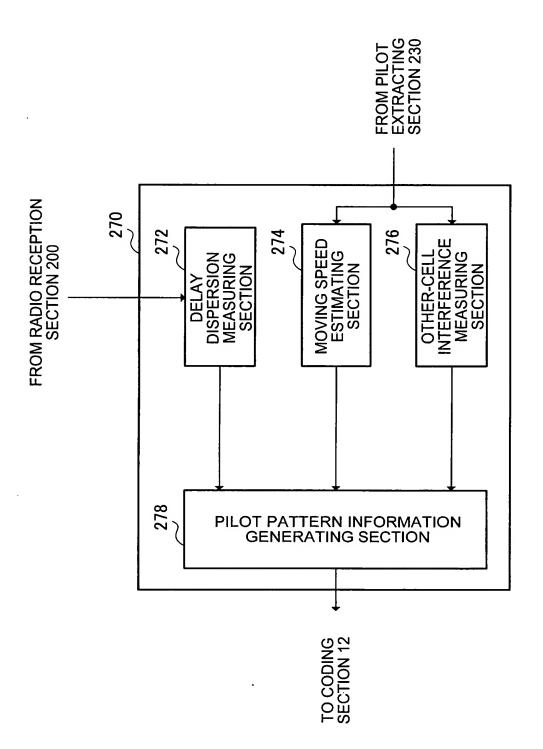


FIG.3

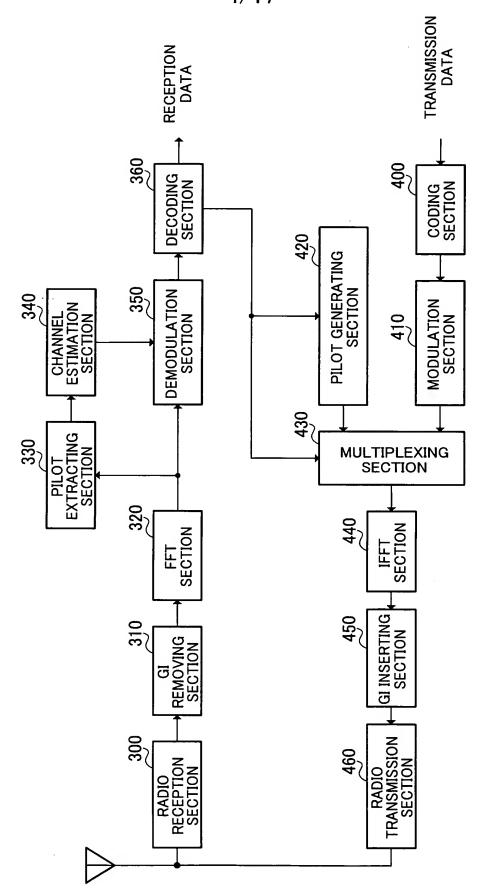


FIG.4

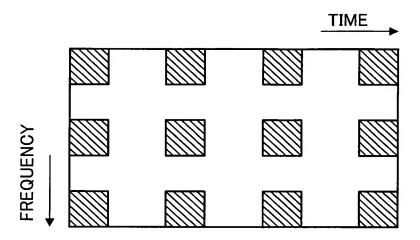


FIG.5A

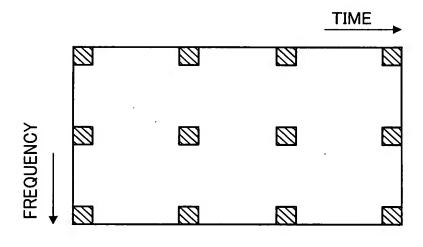


FIG.5B

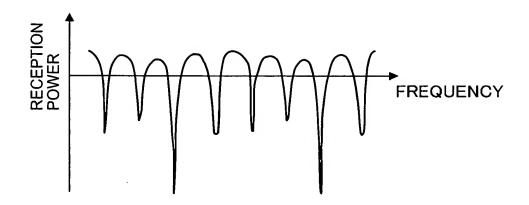


FIG.6A

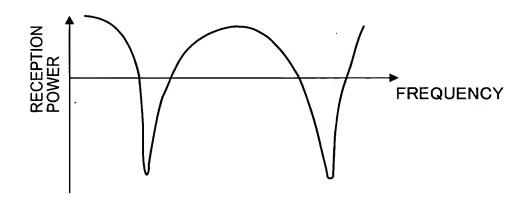


FIG.6B

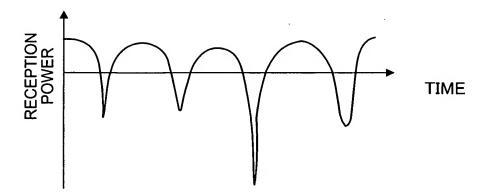


FIG.7A

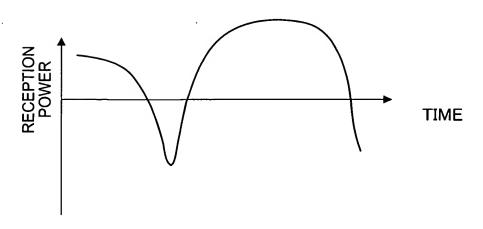
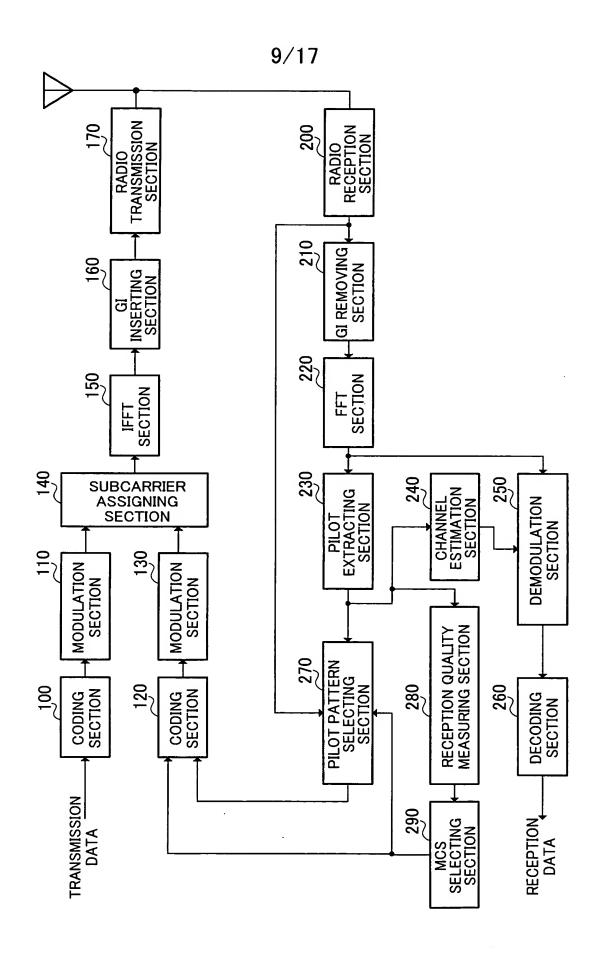


FIG.7B

FIG.8





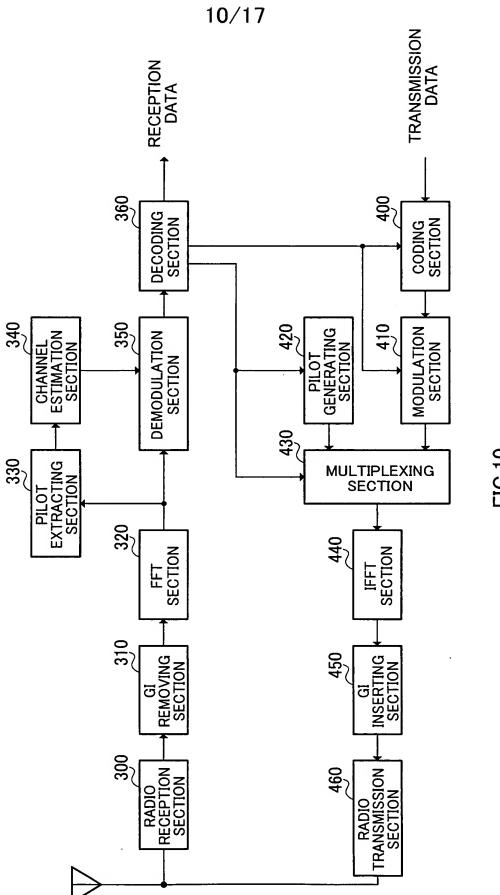


FIG.10

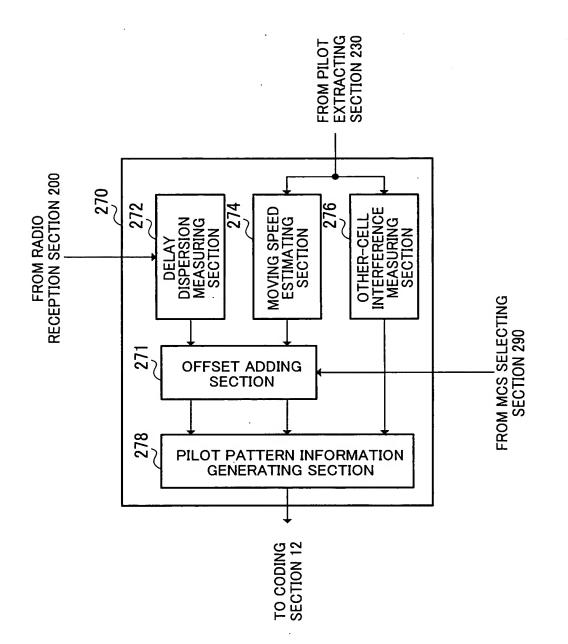


FIG. 1

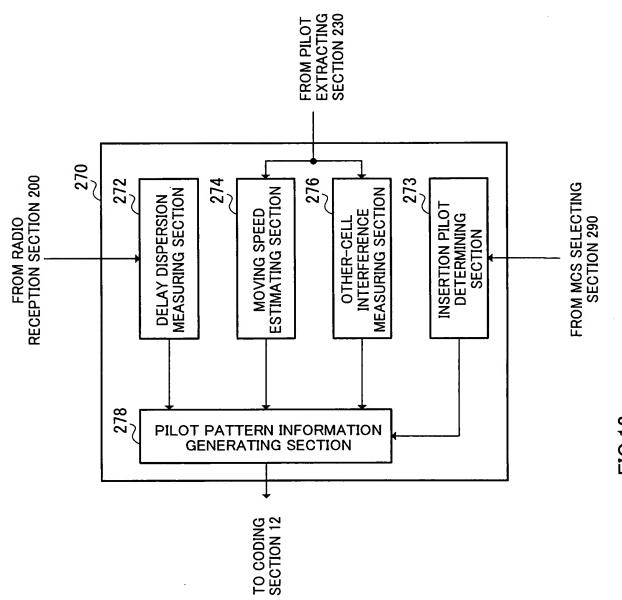


FIG.12

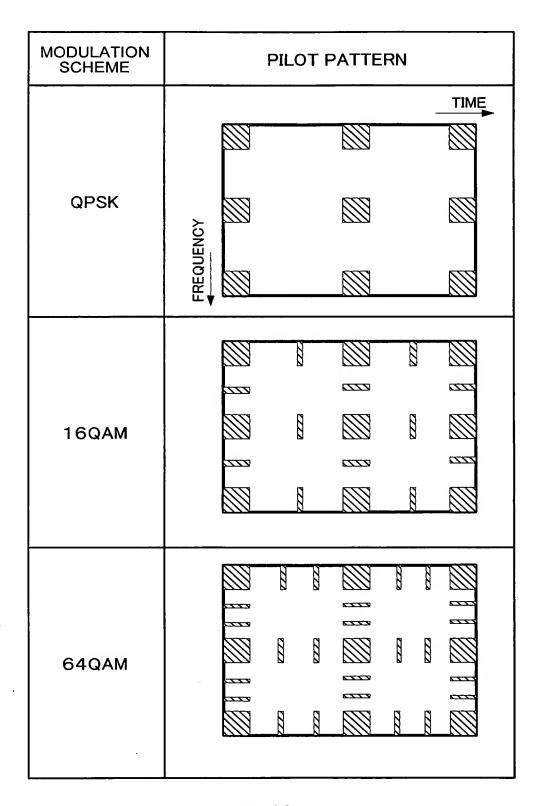
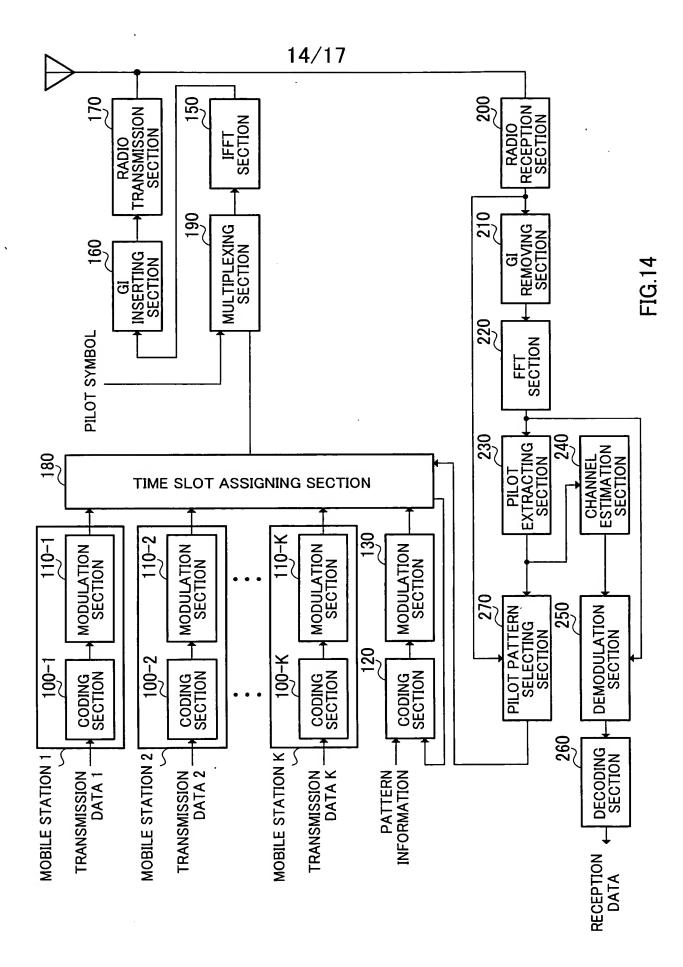


FIG.13



(**ii)**

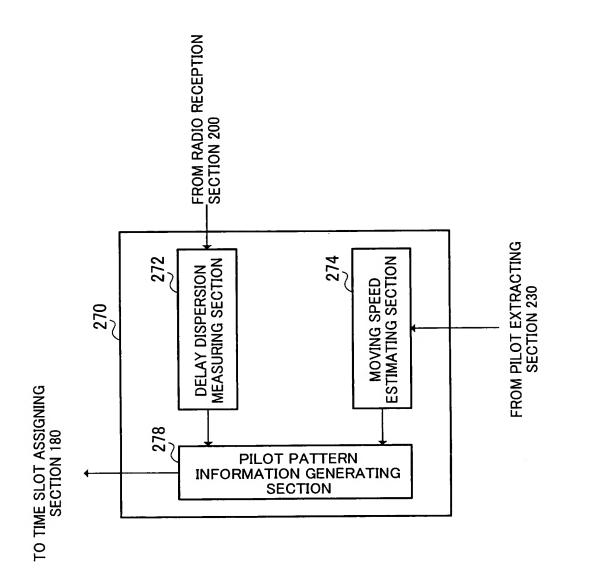


FIG. 15

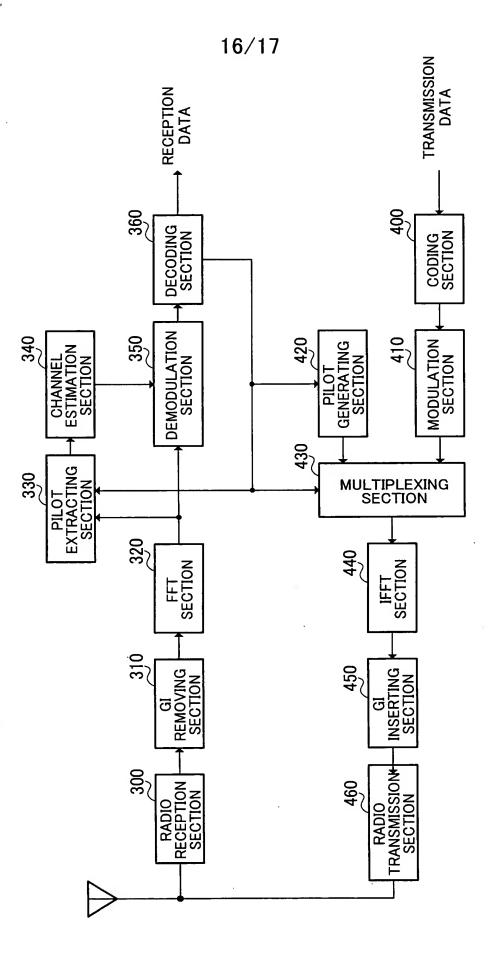


FIG.16

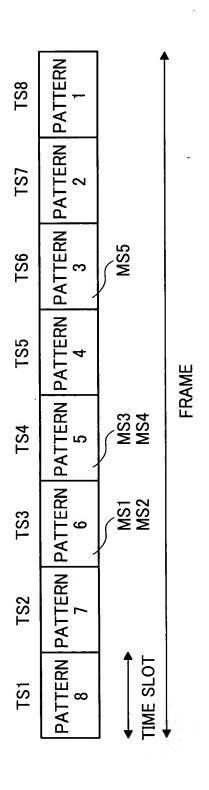


FIG.17